### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:				PCT		
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
				(F	PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)	
	licant's or agent's file e form PCT/ISA/2			FOR FURTHER ACTION See paragraph 2 below		
Inte	rnational application I	No.	International filing date (	day/month/year)	Priority date (day/month/year)	
PC	PCT/EP2005/002261 03.0		03.03.2005		03.03.2004	
A6	rnational Patent Clas 1K9/70, B01J13/0		both national classification	and IPC		
	/ITCH BIOTECH	AG				
1.	This opinion co	ontains indicati Basis of the or	ons relating to the foll	owing items:	·	
	☐ Box No. II	Priority .				
	☐ Box No. III	Non-establish	ment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability	
	☐ Box No. IV	Lack of unity of		•		
	☑ Box No. V	Reasoned state applicability; c	tement under Rule 43 <i>bi</i> : itations and explanation	s.1(a)(i) with regard to s supporting such sta	novelty, inventive step or industrial tement	
	☐ Box No. VI	Certain docum	nents cited			
	☐ Box No. VII		s in the international app			
	☑ Box No. VIII	Certain obsen	ations on the internation	nal application		
2.	FURTHER ACT	ION				
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
	submit to the IP	EA a written repeted a written repeted and the of mailing	ly together, where appro	opriate, with amendme	IPEA, the applicant is invited to ents, before the expiration of three n of 22 months from the priority date,	
	For further option	ons, see Form P	CT/ISA/220.			
3.	For further deta	ils, see notes to	Form PCT/ISA/220.			
Na	me and mailing addre	ess of the ISA		Authorized Officer		



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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/002261

			· ·			
	Box	No.	I Basis of the opinion			
۱.	With the I	lith regard to the language, this opinion has been established on the basis of the international application in e language in which it was filed, unless otherwise indicated under this item.				
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With	h regard to any nucleotide and/or amino acid sequence disclosed in the international application and cessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
	C	] a	sequence listing			
	Ε	] ta	able(s) related to the sequence listing			
b. format of material:						
	[	) ii	n written format			
		j i	n computer readable form			
	c. tii	f filing/furnishing:				
	[	<b>3</b> c	contained in the international application as filed.			
	[	3 f	iled together with the international application in computer readable form.			
	[	∃ f	urnished subsequently to this Authority for the purposes of search.			
3.		has cop	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.			
4	. Add	lition	al comments:			

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/002261

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-39

No: Claims

Inventive step (IS)

Yes: Claims

No:

Claims 1-39

Industrial applicability (IA)

Yes: Claims

1-39

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

# IAP9 Rec'd PCT/PTU 29 AUG 2006

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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#### Section V

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

- D1: DE 199 40 241 A, disclosing the use of ink-jet printing technology for distributing active agents on the surface of a substrate;
- D2: WO 91/19480 A, disclosing wound healing materials comprising a freeze-dried gel and an active agent;
- D3: US 6 117 437 A, disclosing a medicated sheet for wound treatment with an active substance homogeneously dispersed therein
- D4: Eun Jeong Cho et al: Analytical Chemistry, vol. 74, no. 24,(2002), pages 6177-6184, discosing the application of pin printing technology to obtain biosensor arrays on xerogels
- D5: US 2002/127254 A1, disclosing cosmetic or therapeutic active agents delivered by gel discs which dissolve in contact with the skin or a wetting solution;

Unless otherwise indicated, reference is made to the relevant passages emphasized in the Search Report.

None of the cited prior art items dicloses exactly the same process and compositions of the present application, which can, therefore, be considered novel under Art. 33(1) and (2) PCT.

In D1, surface application of the active agents by printing is described as an improvement over homogeneously mixing the active agents into the matrix. The latter method could give rise to undesired effects like incompatibility phenomena between active agent and excipients or between two different active agents for combination therapy etc.. The difference with respect to the process of the present application is that no freeze or vacuum drying is foreseen. After applying the active agent, the substrate is dried by an air flow.

D2, which is considered the closest prior art, discloses the advantages of freeze-drying of the preparations for wound treatment in terms of storage, stability of the active principle, patient compliance. In D2 the active ingredient is homogeneously mixed into the matrix of

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the gel.

The problem is to obtain a sheet or gel for the release of active agents with good release and optimal stability, compatibility and storage properties.

It would be obvious for the skilled person to combine the two methods in order to exploit the advantages of printing and of freeze-drying. Sterilization of the materials is a routine step to be undertaken when wounds (especially e.g. burns) are treated.

In summary, the subject-matter of present claims 1-39 is considered to lack inventive step under Art. 33(1) and (3) PCT.

#### Section VIII

The wording of present claims 1 and 2 appears to be identical and therefore redundant. The dependency of claims 32-37 from claim 23 leads to an inconsistency as far as the category is concerned, since claim 23 does not relate to a method (Art. 6 PCT).